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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,429	03/25/2004	Shyh-Kwei Chen	YOR920040052US1	6945
48150 7590 04/14/2010 MCGINN INTELLECTUAL PROPERTY LAW GROUP, PLLC 8321 OLD COURTHOUSE ROAD SUITE 200			EXAMINER	
			JOHNSON, JOHNESE T	
VIENNA, VA 22182-3817			ART UNIT	PAPER NUMBER
			2166	
			MAIL DATE	DELIVERY MODE
			04/14/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/808,429	CHEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Johnese Johnson	2166				
The MAILING DATE of this communication app	pears on the cover sheet with the c	orrespondence address				
Period for Reply		0) 00 THETA (00) BAYO				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>08 M</u>	larch 2010.					
	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 3-41</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 3-41</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8)☐ Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
<ul><li>1. Certified copies of the priority documents have been received.</li><li>2. Certified copies of the priority documents have been received in Application No</li></ul>						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date 6) Other:						

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## **DETAILED ACTION**

### Remarks

- 1. In response to the amendment filed on 3-8-2010, prosecution is re-opened and claims 1 and 3-41 are pending in this application.
- 2. As agreed upon in the in-person interview on 3-8-2010, a new non-final action is being issued.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, and 3-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mitchell et al. (US PG Pub. No. 2005/0229186) in view of Kaipa et al (US PG Pub. No. 2005/0114394).

As to claims 1 and 25, Mitchell discloses:

receiving an object and a collaboration code (see paragraphs 33 and 35; wherein collaboration code is interpreted as procedure(s) to manipulate the data/ object); determining a business object definition for said object based upon said collaboration code (see paragraphs 34, lines 4-8 and 38, lines 3-5; wherein collaboration code is interpreted as procedure(s) to manipulate the data/ object); and However, Mitchell does not explicitly disclose:

storing said business object definition, wherein said collaboration code determines said business object definition for said object without pre-defined business object definitions, if the object does not conform to a known business object definition. Kaipa discloses:

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storing said business object definition, wherein said collaboration code determines said business object definition for said object without pre-defined business object definitions, if the object does not conform to a known business object definition (see paragraph 39, lines 1-3 and 7-10; wherein the definition stored in a business object (as in applicant's publication, paragraph 65) is interpreted as unknown because the schema is xml and the business object definition created is java).

It would have been obvious, at the time the invention was made, to have modified the teaching of Mitchell by the teaching of Kaipa to provide a better way to carry out the conversion of XML schema to Java and other object definitions (see Kaipa, paragraph 9).

As to claim 3, Mitchell as modified by Kaipa, discloses:

wherein said object comprises a business object (see Kaipa, paragraph 19), and wherein said determining the business object definition for said business object comprises reverse engineering said business object to examine how the business object was obtained (see Mitchell, paragraph 22).

As to claim 4, Mitchell as modified by Kaipa, discloses: further comprising forwarding said object and said object definition (see Kaipa, paragraph 37, lines 2-6).

As to claim 5, Mitchell as modified by Kaipa, discloses: wherein said forwarding comprises forwarding said object and said object definition to an application adapter (see Kaipa, paragraph 37, lines 2-6).

As to claim 6, Mitchell as modified by Kaipa, discloses: further comprising processing said object based upon said object definition in said application adapter (see Kaipa, paragraph 37).

As to claim 7, Mitchell as modified by Kaipa, discloses: wherein said collaboration code determines how data from a second object is mapped to said object (see Kaipa, paragraphs 18 and 35).

As to claim 8, Mitchell as modified by Kaipa, discloses: wherein said collaboration code determines how said object is derived from said second object (see Kaipa, paragraphs 18 and 35).

As to claim 9, Mitchell as modified by Kaipa, discloses: wherein said collaboration code determines how said object is derived from said second object and a second object definition (see Mitchell, paragraphs 22 and 25, lines 1-4).

As to claim 10, Mitchell as modified by Kaipa, discloses:

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further comprising receiving said second object definition (see Mitchell, paragraph 33).

As to claim 11, Mitchell as modified by Kaipa, discloses:

wherein said determining comprises determining said object definition for said object based upon said collaboration code and said second object definition (see Mitchell, paragraphs 22 and 25, lines 1-4).

As to claim 12, Mitchell as modified by Kaipa, discloses:

wherein said receiving comprises receiving said object and said collaboration code from a broker (see paragraphs 33 and 35; wherein the broker is interpreted as dealing with input and output requests as in applicant's publication, paragraph 41, last line).

As to claims 13 and 20, Mitchell discloses:

a processor (see figs. 1-3; wherein the system inherently comprises a computer) for receiving an object and a collaboration code, and for determining an object definition for said object based upon said collaboration code (see paragraphs 33 and 35; wherein collaboration code is interpreted as procedure(s) to manipulate the data/ object), However, Mitchell does not explicitly disclose:

wherein said collaboration code determines said business object definition for said object without pre-defined business object definitions, if the object does not conform to a known business object definition.

Kaipa discloses:

wherein said collaboration code determines said business object definition for said object without pre-defined business object definitions, if the object does not conform to a known business object definition (see paragraphs 34, lines 4-8 and 38, lines 3-5; wherein collaboration code is interpreted as procedure(s) to manipulate the data/object).

It would have been obvious, at the time the invention was made, to have modified the teaching of Mitchell by the teaching of Kaipa to provide a better way to carry out the conversion of XML schema to Java and other object definitions (see Kaipa, paragraph 9).

As to claim 14, Mitchell as modified by Kaipa, discloses:

wherein said object comprises a business object (see Kaipa, paragraph 19), wherein said processor comprises a reverse object discovery agent (see Mitchell, paragraph 22), and

wherein said reverse object discovery agent conducts said determining the business object definition for said business object by reverse engineering said business object to examine how the business object was obtained (see Mitchell, paragraph 22).

As to claim 15, Mitchell as modified by Kaipa, discloses:

further comprising means for forwarding said object and said object definition to an application adapter (see Kaipa, paragraph 37, lines 2-6).

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As to claim 16, Mitchell as modified by Kaipa, discloses:

wherein said collaboration code determines how data from a second object is mapped to said object (see Kaipa, paragraphs 18 and 35).

As to claim 17, Mitchell as modified by Kaipa, discloses:

further comprising means for receiving a second object definition, wherein said collaboration code determines how said object is derived from said second object and said second object definition (see Mitchell, paragraphs 22 and 25, lines 1-4).

As to claim 18, Mitchell as modified by Kaipa, discloses:

wherein said means for determining comprises means for determining said object definition for said object based upon said collaboration code and said second object definition (see Mitchell, paragraphs 22 and 25, lines 1-4).

As to claim 19, Mitchell as modified by Kaipa, discloses:

wherein said means for receiving comprises means for receiving said object and said collaboration code from a broker (see paragraphs 33 and 35; wherein the broker is interpreted as dealing with input and output requests as in applicant's publication, paragraph 41, last line).

As to claim 21, Mitchell as modified by Kaipa, discloses:

a broker that receives a second object and a second object definition and that generates said first object using said collaboration code (see paragraphs 33 and 35; wherein the broker is interpreted as dealing with input and output requests as in applicant's publication, paragraph 41, last line).

As to claim 22, Mitchell as modified by Kaipa, discloses:

wherein said collaboration code determines how said first object is derived from said second object (see Kaipa, paragraphs 18 and 35).

As to claim 23, Mitchell as modified by Kaipa, discloses:

wherein said collaboration code determines how said first object is derived from second object and said second object definition (see Mitchell, paragraphs 22 and 25, lines 1-4).

As to claim 24, Mitchell as modified by Kaipa, discloses:

an application adapter that receives said first object and said first object definition from said reverse object discovery agent (see Kaipa, paragraph 37, lines 2-6).

As to claim 26, Mitchell as modified by Kaipa, discloses:

further comprising analyzing said collaboration code and said input object definition (see Mitchell, paragraph 22 – reverse engineering).

As to claim 27, Mitchell as modified by Kaipa, discloses:

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further comprising creating a new object definition based upon the results of said analyzing (see Mitchell, paragraph 22, lines 1-7).

As to claim 28, Mitchell as modified by Kaipa, discloses:

further comprising forwarding said object if said object conforms to a known object definition (see Mitchell, paragraph 34, lines 4-8).

As to claim 29, Mitchell as modified by Kaipa, discloses: wherein said object comprises a business object (see Kaipa, paragraph 19).

As to claim 30, Mitchell as modified by Kaipa, discloses:

further comprising forwarding said new object definition to an application adapter (see Kaipa, paragraph 37, lines 2-6).

As to claim 31, Mitchell as modified by Kaipa, discloses: further comprising receiving a subscription from said application adapter for said new object definition (see Kaipa, paragraph 37; wherein "subscription from" is interpreted as receiving the new object definition).

As to claim 32, Mitchell as modified by Kaipa, discloses:

further comprising forwarding said object in response to said subscription (see Kaipa, paragraph 39, "The resultant business object definition (in this case, preferably a Java object) is forwarded to the connector 310 for use in runtime object conversion").

As to claim 33, Mitchell discloses:

integrating computer-readable code into a computing system (see paragraph 18), the computer-readable code comprising:

instructions for receiving an object and a collaboration code (see paragraphs 33 and 35; wherein collaboration code is interpreted as procedure(s) to manipulate the data/ object);

instructions for determining a business object definition for said object based upon said collaboration code (see paragraphs 34, lines 4-8 and 38, lines 3-5; wherein collaboration code is interpreted as procedure(s) to manipulate the data/ object); and However, Mitchell does not explicitly disclose:

instructions for storing said business object definition,

wherein said collaboration code determines said business object definition for said object without pre-defined business object definitions, if the object does not conform to a known business object definition.

Kaipa discloses:

instructions for storing said business object definition (see paragraph 34, lines 18-19), wherein said collaboration code determines said business object definition for said object without pre-defined business object definitions, if the object does not conform to a known business object definition (see paragraph 39, lines 1-3 and 7-10; wherein the definition stored in a business object (as in applicant's publication, paragraph 65) is

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interpreted as unknown because the schema is xml and the business object definition created is java).

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It would have been obvious, at the time the invention was made, to have modified the teaching of Mitchell by the teaching of Kaipa to provide a better way to carry out the conversion of XML schema to Java and other object definitions (see Kaipa, paragraph 9).

As to claim 34, Mitchell as modified by Kaipa, discloses: wherein said object comprises a business object (see Kaipa, paragraph 19).

As to claim 35, Mitchell as modified by Kaipa, discloses: further comprising instructions for forwarding said new object definition to an application adapter (see Kaipa, paragraph 37, lines 2-6).

As to claim 36, Mitchell as modified by Kaipa, discloses:

further comprising instructions for receiving a subscription from said application adapter for said new object definition (see Kaipa, paragraph 37; wherein "subscription from" is interpreted as receiving the new object definition).

As to claim 37, Mitchell as modified by Kaipa, discloses:

further comprising instructions for forwarding said object in response to said subscription (see Kaipa, paragraph 39, "The resultant business object definition (in this case, preferably a Java object) is forwarded to the connector 310 for use in runtime object conversion").

As to claim 38, Mitchell as modified by Kaipa, discloses:

wherein said collaboration code comprise dynamically generated business object newly discovered during runtime (see Mitchell, paragraph 47).

As to claim 39, Mitchell as modified by Kaipa, discloses:

wherein the processor for receiving the object **and the object** (examiner interprets the italicized phrase as a typo) and the collaboration code and for determining the object definition for said object based on said collaboration code, and the collaboration code for determining whether the object conforms to the known business object definition, comprise a reverse object discovery agent means (see Mitchell, paragraph 22).

As to claim 40, Mitchell as modified by Kaipa, discloses:

wherein determining the business object definition for said object without pre-defined business object definitions comprises:

determining a mapping information by determining how a plurality of business objects was merged to create the received object (see Kaipa, paragraphs 18 and 35); creating the business object definition based on the determined mapping information (see Kaipa, paragraph 39);

sending the created business object definition to an adapter (see Kaipa, paragraph 37, lines 2-6); and

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subscribing to the new business object definition (see Kaipa, paragraph 39, "The resultant business object definition (in this case, preferably a Java object) is forwarded to the connector 310 for use in runtime object conversion"; wherein "subscribing to" is interpreted as receiving the new object definition).

As to claim 41, Mitchell as modified by Kaipa, discloses:

wherein said receiving the object and the collaboration code is performed before said determining the business object definition (see Mitchell, paragraphs 33 and 35), and wherein said storing the business object definition is performed before said determining the business object definition (see Mitchell, paragraphs 22 and 25; "wherein storing before..." is interpreted as using pre-defined definitions).

Note: There are several recitations of storing the business object definition throughout the claims. The examiner is unable to discern exactly what is meant because throughout the specification, various meanings are given to this phrase. For example in paragraphs 5, 65, and 69 of the publication (US 20050216282 A1).

# Response to Arguments

5. Applicant's arguments with respect to claims 1 and 3-41 have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Johnese Johnson whose telephone number is 571-270-1097. The examiner can normally be reached on 4/5/9.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. J./ Examiner, Art Unit 2166

March 30, 2010 JJ /Khanh B. Pham/ Primary Examiner, Art Unit 2166